

THE TECHNICAL CAREER CONTINUUM

State Board of Education
February 10, 2015

ECONOMIC STRATEGY



EDUCATION PROJECTS

- Soft Skills
 - Lifelong Soft Skills Framework
 - Soft skills Videos (with MEDC)
- Infrastructure and Jobs Asset Map
 - Analysis of jobs in infrastructure
- STEM and Skilled Trades Initiative
 - Products, policies, and resources

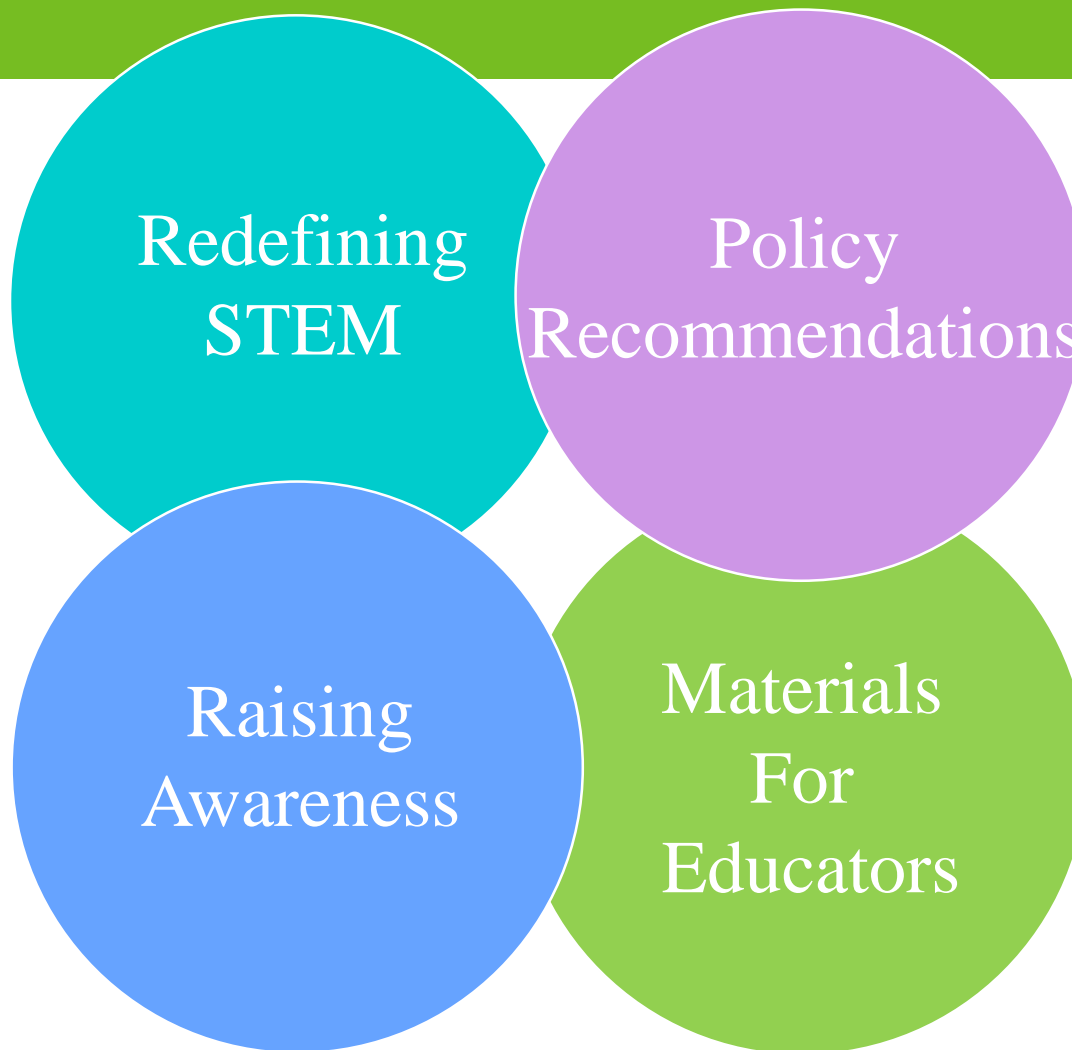
PUBLIC SURVEY RESULTS

- 75% of people think a bachelors degree or above is needed for a well paying, secure and fulfilling career
- Most people think that the public education system focuses on college access
- 70% of people would encourage careers in the skilled trades

CONNECTING EDUCATION AND ECONOMIC DEVELOPMENT

- Prepare for post secondary education
- Strengthen connectivity between employers and education
- Change perceptions of technical careers

STRATEGIES AND SOLUTIONS



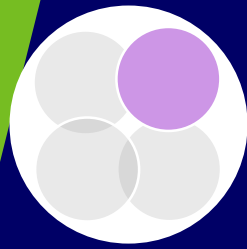
SKILLED TRADES = APPLIED STEM



“A STEM job is any job that requires specialized knowledge in science, technology, engineering or math...”

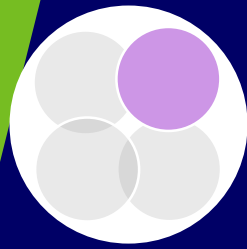


POLICY RECOMMENDATIONS



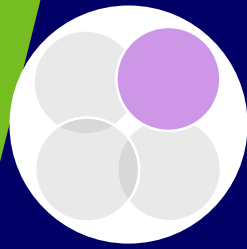
- Increasing **student exposure** to technical careers
- Updating graduation **requirements**
- Enhancing **curriculum connectivity**
- Addressing **cost of education**
- Providing HS students with **work experience**
- Overcoming **perception challenges**

STUDENT EXPOSURE



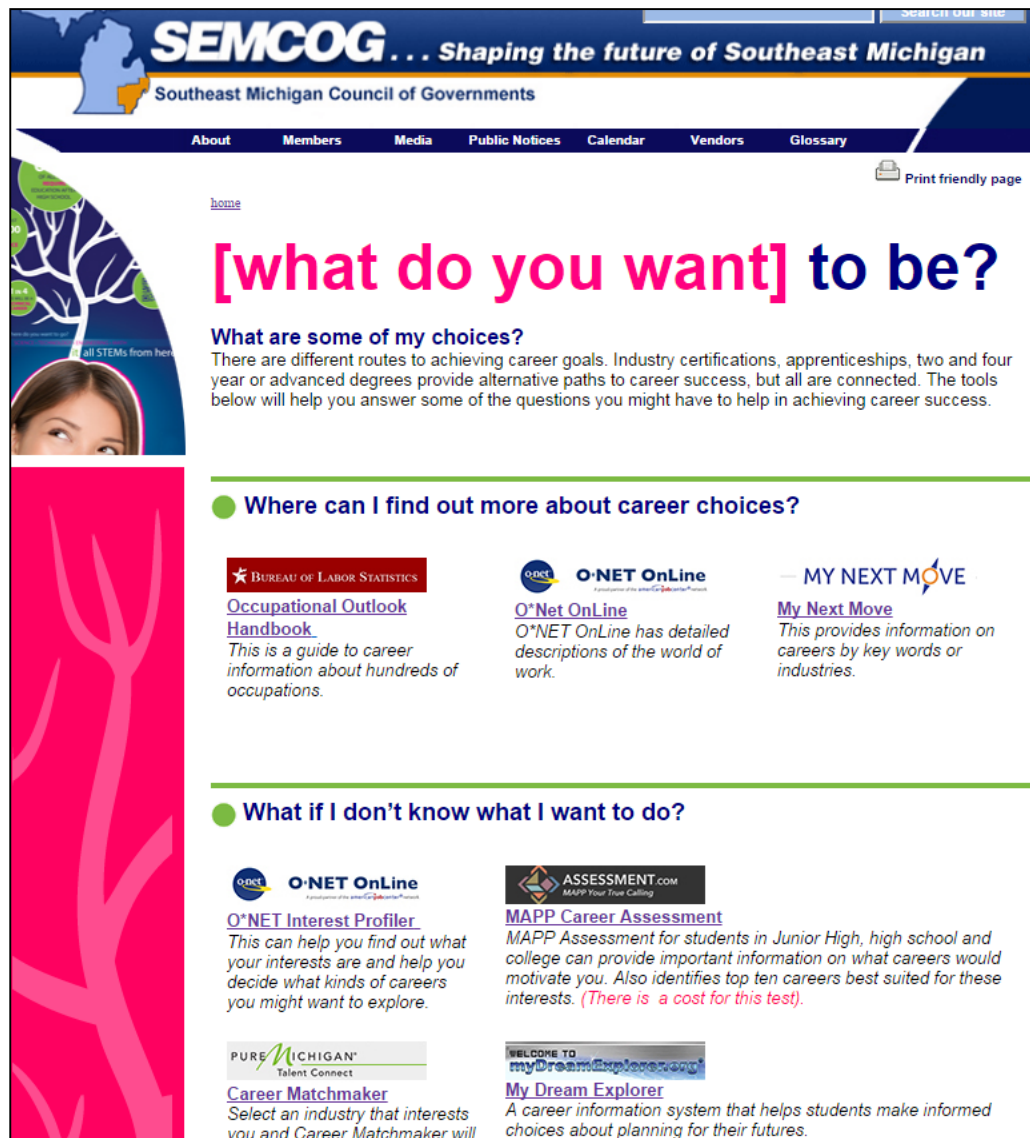
- Meaningful Exploration of Career Options
 - Require all schools to provide career guidance
 - Support Education Development Plans
 - Encourage counselors to provide information on a variety of post secondary opportunities (not just college)
 - Provide onsite experiences for Counselors
 - Start in Middle school or before

ENHANCE CURRICULUM CONNECTIVITY



- Document future employer needs
 - Broaden the Career and Technical Education (CTE) model
 - Require math and reading skills on par with industry requirements
 - Require a career focused class for graduation
 - Provide more opportunities for application based learning
 - Develop more STEM based early/middle colleges

RAISING AWARENESS



The screenshot shows the SEMCOG website with a blue header and a navigation menu. The main content area features a large pink and blue graphic on the left and a central text block. The text block includes a heading "[what do you want] to be?" and a subheading "What are some of my choices?". Below this, there are two sections: "Where can I find out more about career choices?" and "What if I don't know what I want to do?". Each section contains links to various career resources, including the Bureau of Labor Statistics, O*NET OnLine, My Next Move, and the MAPP Career Assessment.

SEMCOG ... Shaping the future of Southeast Michigan
Southeast Michigan Council of Governments

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[home](#)

[what do you want] to be?

What are some of my choices?

There are different routes to achieving career goals. Industry certifications, apprenticeships, two and four year or advanced degrees provide alternative paths to career success, but all are connected. The tools below will help you answer some of the questions you might have to help in achieving career success.

● **Where can I find out more about career choices?**

BUREAU OF LABOR STATISTICS
[Occupational Outlook Handbook](#)
This is a guide to career information about hundreds of occupations.

O*NET OnLine
[O*Net OnLine](#)
O*Net OnLine has detailed descriptions of the world of work.

MY NEXT MOVE
[My Next Move](#)
This provides information on careers by key words or industries.

● **What if I don't know what I want to do?**

O*NET OnLine
[O*NET Interest Profiler](#)
This can help you find out what your interests are and help you decide what kinds of careers you might want to explore.

ASSESSMENT.COM
[MAPP Career Assessment](#)
MAPP Assessment for students in Junior High, high school and college can provide important information on what careers would motivate you. Also identifies top ten careers best suited for these interests. (There is a cost for this test).

PURE MICHIGAN
[Career Matchmaker](#)
Select an industry that interests you and Career Matchmaker will

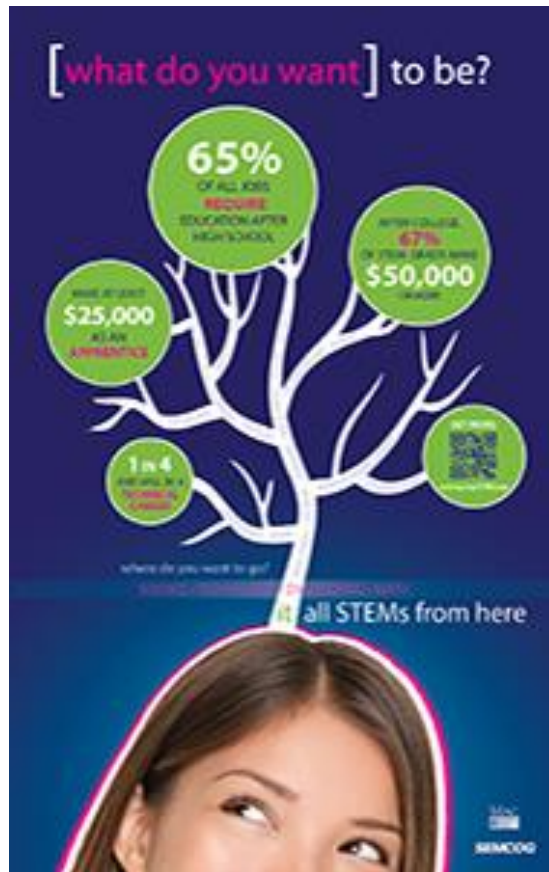
WELCOME TO myDreamExplorer
[My Dream Explorer](#)
A career information system that helps students make informed choices about planning for their futures.

[www.semcog.org/
STEM.aspx](http://www.semcog.org/STEM.aspx)

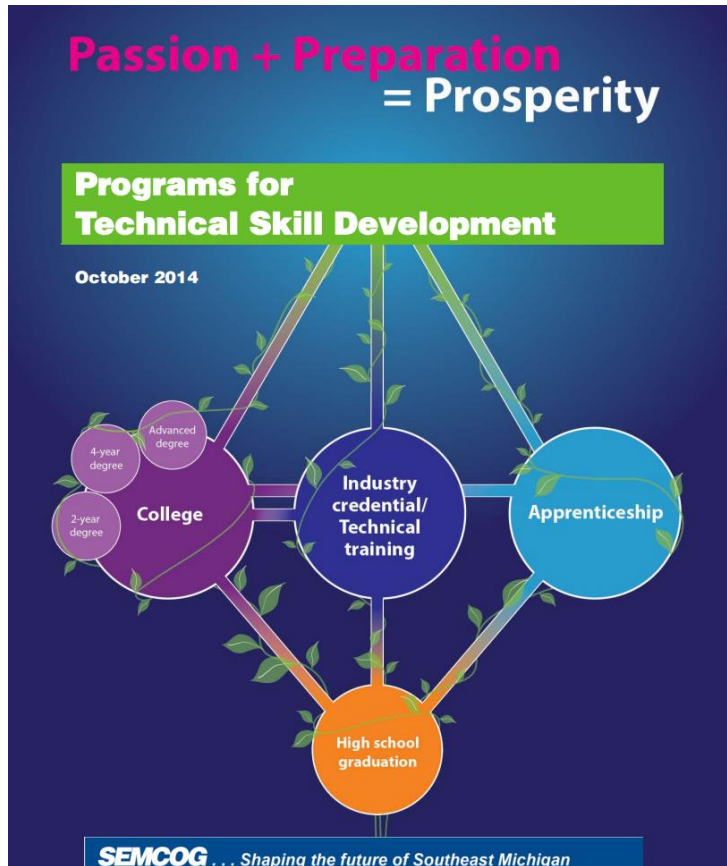
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POSTERS AND BROCHURE



BEST PRACTICES INVENTORY



- GOALS:
- Explore STEM careers
- Improve Math/Science skills
- Strengthen workplace readiness

MORE INFORMATION



Posters, recommendations and publications

www.semcog.org/talent.aspx

Resource for students

www.semcog.org/STEM.aspx

SUMMARY

- Lack of technical pipeline most significant challenge to growing MI's economy
- Post secondary education is essential to workplace success
- Career success needs BOTH technical and soft skills
- All work has dignity regardless of education route
- CTE programs are a model for preparing the future workforce

FOR MORE INFORMATION

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